760213561 | D-012-CN-RB-F12NS/5L/99A



Fiber OSP Cable, Non-Armored, All-Dielectric, Arid-Core, Dry Central Tube Ribbon, 12 fibers, Multimode OM3 bend insensitive, Gel-free, Feet jacket marking, Black jacket color

Product Classification

| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
|------------------------------|--|
| Portfolio | CommScope® |
| Product Type | Fiber OSP cable |
| Product Series | D-CN |
| General Specifications | |
| Cable Type | Ribbon central tube |
| Construction Type | Non-armored |
| Subunit Type | Gel-free |
| Fibers per Ribbon, quantity | 12 |
| Jacket Color | Black |
| Jacket Marking | Feet |
| Total Fiber Count | 12 |
| Dimensions | |
| Buffer Tube/Subunit Diameter | 6 mm 0.236 in |
| Diameter Over Jacket | 12.6 mm 0.496 in |
| Poprocontativo Imago | |

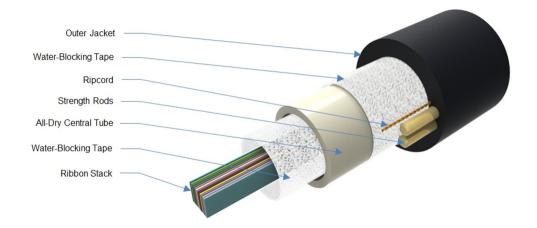
Representative Image

Page 1 of 5

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 6, 2025



760213561 | D-012-CN-RB-F12NS/5L/99A



Mechanical Specifications

| Minimum Bend Radius, loaded | 251.5 mm 9.902 in |
|-----------------------------------|---|
| Minimum Bend Radius, unloaded | 127 mm 5 in |
| Tensile Load, long term, maximum | 800 N 179.847 lbf |
| Tensile Load, short term, maximum | 2700 N 606.984 lbf |
| Compression | 22 N/mm 125.623 lb/in |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 |
| Flex | 25 cycles |
| Flex Test Method | FOTP-104 IEC 60794-1 E6 |
| Impact | 4.4 N-m 38.943 in lb |
| Impact Test Method | FOTP-25 IEC 60794-1 E4 |
| Strain | See long and short term tensile loads |
| Strain Test Method | FOTP-33 IEC 60794-1 E1 |
| Twist | 10 cycles |
| Twist Test Method | FOTP-85 IEC 60794-1 E7 |
| Optical Specifications | |
| Fiber Type | OM3, bend insensitive OM3, bend insensitive |
| | |

Environmental Specifications

Installation temperature Operating Temperature -30 °C to +60 °C (-22 °F to +140 °F) -40 °C to +70 °C (-40 °F to +158 °F)

Page 2 of 5

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 6, 2025



760213561 | D-012-CN-RB-F12NS/5L/99A

| Storage Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |
|-------------------------------|--------------------------------------|
| Cable Qualification Standards | ANSI/ICEA S-87-640 Telcordia GR-20 |
| Environmental Space | Aerial, lashed Buried |
| Jacket UV Resistance | UV stabilized |
| Water Penetration | 24 h |
| Water Penetration Test Method | FOTP-82 IEC 60794-1 F5 |

Environmental Test Specifications

| Heat Age | -40 °C to +85 °C (-40 °F to +185 °F) |
|-------------------------------|--------------------------------------|
| Heat Age Test Method | IEC 60794-1 F9 |
| Low High Bend | -30 °C to +60 °C (-22 °F to +140 °F) |
| Low High Bend Test Method | FOTP-37 IEC 60794-1 E11 |
| Temperature Cycle | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3 IEC 60794-1 F1 |

Packaging and Weights

Cable weight

130 kg/km | 87.356 lb/kft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Included Products

CS-5Y-RB – 50µm OM3 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 3 of 5

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 6, 2025



50µm OM3 Bend-Insensitive Multimode Fiber

Product Classification

| Portfolio | CommScope® |
|---|------------------------|
| Product Type | Optical fiber |
| General Specifications | |
| Cladding Diameter | 125 µm |
| Cladding Diameter Tolerance | ±5 μm |
| Cladding Non-Circularity, maximum | 1 % |
| Coating Diameter (Colored) | 250 µm |
| Coating Diameter (Uncolored) | 245 µm |
| Coating Diameter Tolerance (Colored) | ±15 μm |
| Coating Diameter Tolerance (Uncolored) | ±10 μm |
| Coating/Cladding Concentricity Error, maximum | 12 µm |
| Core Diameter | 50 µm |
| Core Diameter Tolerance | ±3 μm |
| Core/Clad Offset, maximum | 1 µm |
| Proof Tensile Stress | 100,000 psi (0.69 GPa) |

Mechanical Specifications

| Macrobending, 15 mm Ø mandrel, 2 turns | 0.20 dB @ 850 nm 0.50 dB @ 1,300 nm |
|--|---------------------------------------|
| Macrobending, 30 mm Ø mandrel, 2 turns | 0.10 dB @ 850 nm 0.30 dB @ 1,300 nm |
| Coating Strip Force, maximum | 8.9 N 2.001 lbf |
| Coating Strip Force, minimum | 1.3 N 0.292 lbf |
| Dynamic Fatigue Parameter, minimum | 18 |
| | |

Optical Specifications

| Numerical Aperture | 0.2 |
|-------------------------------------|---------------------|
| Numerical Aperture Tolerance | ±0.015 |
| Point Defects, maximum | 0.2 dB |
| Zero Dispersion Slope, maximum | 0.105 ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum | 1340 nm |

Page 4 of 5

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: April 30, 2025



CS-5Y-RB

Zero Dispersion Wavelength, minimum

1295 nm

Optical Specifications, Wavelength Specific

| Attenuation, maximum | 1.50 dB/km @ 1,300 nm 3.50 dB/km @ 850 nm |
|------------------------------|--|
| Backscatter Coefficient | -68.0 dB @ 850 nm -75.7 dB @ 1,300 nm |
| Bandwidth, Laser, minimum | 2,000 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm |
| Bandwidth, OFL, minimum | 1,500 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm |
| Differential Mode Delay Note | Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm |
| Index of Refraction | 1.478 @ 1,300 nm 1.482 @ 850 nm |
| Standards Compliance | TIA-492AAAC (OM3) |

Environmental Specifications

| Heat Aging, maximum | 0.10 dB/km @ 85 °C |
|---------------------------------------|--------------------|
| Temperature Dependence, maximum | 0.1 dB/km |
| Temperature Humidity Cycling, maximum | 0.1 dB/km |
| Water Immersion, maximum | 0.10 dB/km @ 23 °C |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

* Footnotes

| Temperature Dependence, maximum | Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F) |
|---------------------------------------|--|
| Temperature Humidity Cycling, maximum | Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity |

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: April 30, 2025

